

### Abstract of the Disclosure

A method for manufacturing a workpiece and a torque transducer module for material removal techniques, are disclosed, where machining friction varies in dependency of machining depth and the torque/deformation of a shaft is monitored for controlling material removal. The module has a body extending along a central axis and two end portions. Each end portion is part of an axial mount for a respective part to be axially mounted thereto. The module also includes a strain gage sensor arrangement with at least one electric output.